In the claims:

1. (Original) A percutaneous vascular valve, comprising:

a stentless vascular valve body having at least one flexible member for restricting blood flow, the flexible member having an edge for contacting a wall of a vascular vessel;

said edge adapted to attach to said wall.

- 2. (Original) The valve of claim 1, wherein said edge includes barbs.
- 3. (Currently Amended) The valve of claim 1 [or 2], wherein said edge includes an adhesive.
- 4. (Currently Amended) The valve of [any of] claim[s] 1[-3], wherein said flexible member comprises a remodelable material.
- 5. (Currently Amended) The valve of [any of] claim[s] 1[-4], wherein said flexible member comprises a collagenous material.
- 6. (Original) The valve of claim 5, wherein said collagenous material comprises an extracellular matrix.
- 7. (Original) The valve of claim 6, wherein the extracellular matrix comprises submucosa.

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8. (Currently Amended) The valve of [any of] claim[s] 1[-7], wherein the

stentless vascular valve body comprises at least two leaflets.

9. (Currently Amended) The valve of [any-of] claim[s] 1[-8], wherein said

edge is configured to extend longitudinally along and at least partially circumferentially

around the vessel wall.

10. (Currently Amended) The valve of [any-of] claim[s] 1[-9], wherein said

edge is a reinforced edge.

11. (Original) The valve of claim 10, wherein said reinforced edge has a

thickness greater than a central portion of said flexible member.

12. (Original) A percutaneous vascular valve and delivery system,

comprising:

a stentless vascular valve body having at least one flexible member for restricting

blood flow, the flexible member having an edge for attachment to a wall of a vascular

vessel:

a percutaneous deployment device, the deployment device having an

expandable element for selectively forcing said edge against the wall.

13. (Original) The valve and delivery system of claim 12, wherein said edge

has a plurality of structural elements for attaching to said wall.

14. (Original) The valve and delivery system of claim 13, wherein said

structural elements include barbs.

15. (Currently Amended) The valve and delivery system of [any of] claim[s]

12[-14], wherein said edge includes an adhesive.

16. (Currently Amended) The valve and delivery system of [any of] claim[s]

12[-15], wherein said expandable element comprises a wire frame.

17. (Currently Amended) The valve and delivery system of [any of] claim[s]

12[-16], wherein said stentless valve body comprises a remodelable material.

18. (Original) The valve and delivery system of claim 17, wherein said

remodelable material is collagenous.

(Currently Amended) The valve and delivery system of [any of] claim[s]

12[-18], wherein the stentless valve body is releasably attached to the expandable

element.

20. (Original) The valve and delivery system of claim 19, wherein the

stentless valve body is releasably attached to the expandable element with an adhesive.

21. (Original) The valve and delivery system of claim 19, wherein the

stentless valve body is releasably attached to the expandable element with a removable

component.

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22. (Original) The valve and delivery system of claim 21, wherein the

removable component comprises a removable suture.

23. (Original) The valve and delivery system of claim 19, wherein the

stentless valve body is releasably attached to the expandable element by an attachment

adaptation on said body, said element, or both.

24. (Currently Amended) A medical device, comprising a valve of [any of]

claim[s] 1[-11], in combination with a percutaneous deployment device.

25. (Original) The medical device of claim 19, wherein said percutaneous

deployment device has at least one expandable element for forcing said edge of said

valve against a vessel wall.

26. (Original) A method for modifying blood flow in a vascular vessel, the

method comprising:

percutaneously delivering one or more pieces of flexible material to a site within a

vascular vessel; and

percutaneously attaching at least portions of said one or more pieces of flexible

material to walls of the vascular vessel so as to form a structure that selectively permits

blood flow in a first direction and resists blood flow in a second direction.

27. (Original) The method of claim 26, wherein said flexible material has

remodelable properties.

28. (Original) The method of claim 26, wherein said flexible material contains

collagen.

29. (Original) The method of claim 26, wherein said flexible material

comprises an extracellular matrix material.

30. (Original) The method of claim 29, wherein said extracellualar matrix

material contains collagen.

31. (Original) The method of claim 30, wherein said extracellular matrix

material comprises submucosa.

32. (Original) The method of claim 26, wherein said structure includes a

valve having two or more leaflets.

33. (Original) The method of claim 26, wherein said flexible material

comprises collagen, and wherein said percutaneously attaching includes delivering

energy to facilitate attachment of said portions to the wall.

34. (Original) The method of claim 33, wherein said energy includes

electromagnetic radiation.

35. (Original) The method of claim 34, wherein said energy is selected from

microwave, radio frequency, laser, and ultraviolet light energy.

36. (Original) The method of claim 33, wherein an energy-absorbing

substance is provided in contact with said portions, and wherein said energy activates

the energy-absorbing substance to attach said portions to the wall.

37. (Original) The method of claim 33, wherein the energy welds said

portions to the wall.

38. (Original) The method of claim 26, wherein said percutaneously

delivering comprises deploying the flexible material from a lumen of a percutaneously

advancable device.

39. (Original) The method of claim 38, wherein said percutaneously

delivering comprises deploying a delivery structure from the lumen, the delivery structure

including the flexible material releasably held to an expandable element.

40. (Original) The method of claim 39, wherein the expandable element

includes a balloon.

41. (Original) The method of claim 38, wherein the expandable element

includes a wire structure.

42. (Original) The method of claim 26, wherein said attaching includes

attaching a band of said flexible material in a path extending at least partially

longitudinally and at least partially circumferentially along the wall.

43. (Original) A percutaneous vascular valve, comprising:

a vascular valve body free of any support structure and having at least one movable member for restricting blood flow, the movable member having an edge for contacting a wall of a vascular vessel;

said edge adapted to attach to said wall.

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